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## Office Memorandum • united states government

TO:	The Files	(R&D Branch)	DATE: 28 March 1957		
FROM :				50X	
SUBJECT:	Operationa and Perfor	l Test of the Modified Portable	Automatic Morse Keyer	50X	
REF :	(a) Memo O&T 56-600, dated 25 October 1956 (b) Memo O&T 56-601, dated 25 October 1956 (c) Memo ENG-6-1268, dated 20 November 1956				
	· .;				
	Serial #4 Laboratory listed in	A Portable Automatic Morse Mach and Perforator TH-24, Serial #4) to correct the operational and Ref. (a) and Ref. (c). An addit e keyer by replacing and reforming ing head.	was modified at the R&D functional deficiencies cional modification was	50X	
	by the A&A	Operational tests of the modification, R&D Laboratory. The rests follow:			
	(a)	The Perforator TH-24 #4 and compile International Morse 1/4 inch mylar audio recording formed satisfactorily during the	tape. The Perforator per-	50X	
	(b)	The tests conducted on the Keyer keying an RT-3 transmitter professory copy. Link paper tape the keyed transmissions as recessive and recorded on Recorder. During the final test copy recordings of the keyed to	duced accurate and satis- recordings were made of eived on a Hammarlund n a McElroy RAPC Amplifier ests of the keyer, perfect	50 <b>X</b> 1	
	(c)	The "Lo" speed of the keyer was $\pm$ 0.5 wpm.	s 21 words per minute		
	(d)	The "Hi" speed of the keyer was per minute + 1 wpm.	s measured to be 50 words		
	(e)	either 20 wpm or 60 wpm keying observed during the operational additional friction loads place through the tape pull mechanism	The 2.5:1 ratio tests is attributed to ed on the spring motor		
33 na	OFF 19/3/80 OFF 56 RE	TYPE 2 V GLASS CONTENT UP 10-2 CENDET	man and the same		

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(a)	The Perforator TH-24 #4 is considered to be an acceptable engineering model.	50X1
(b)	The Keyer KY-201 #4 is considered to be an acceptable engineering model. The keying tests indicate that the keyer performance is good; however, considerable adjustment of the keying contacts was necessary to produce perfect copy transmissions during hi/lo speed keying tests. Long-time reliability tests were not made on the keyer because of the lack of time.	50X1
		50X1

Attachment: Test Tape

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